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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/283,770	03/31/1999	ROMY A. ACHITUV	IR-013	1443
21912	7590 07/01/2003			• سر
VAN PELT & YI LLP			EXAMINER	
	OTHILL BLVD #200 D, CA 95014		BUGG, GEORGE A	
			ART UNIT	PAPER NUMBER
			2613	15
			DATE MAILED: 07/01/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		5¢				
	Application No.	Applicant(s)				
7	09/283,770	ACHITUV ET AL.				
Office Action Summary	Examiner	Art Unit				
	George A Bugg	2613				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with th	e correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a rep.  - If NO period for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by statut.  - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	136(a). In no event, however, may a reply be only within the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS fit e. cause the application to become ABANDO	e timely filed  days will be considered timely.  om the mailing date of this communication.  NED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on <u>07</u>	Responsive to communication(s) filed on <u>07 April 2003</u> .					
2a)⊠ This action is FINAL. 2b)□ T	his action is non-final.					
3) Since this application is in condition for allow closed in accordance with the practice under <b>Disposition of Claims</b>						
4)⊠ Claim(s) 1-25 is/are pending in the applicatio	n.					
4a) Of the above claim(s) is/are withdra						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-25</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers	·					
9) The specification is objected to by the Examine	er.					
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to by the E	xaminer.				
Applicant may not request that any objection to the	ne drawing(s) be held in abeyance.	See 37 CFR 1.85(a).				
11) The proposed drawing correction filed on	_ is: a) ☐ approved b) ☐ disap	proved by the Examiner.				
If approved, corrected drawings are required in re	• •					
12) ☐ The oath or declaration is objected to by the E	xaminer.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. § 119	9(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
<ol> <li>Certified copies of the priority document</li> </ol>	ts have been received.					
<ol><li>Certified copies of the priority document</li></ol>	ts have been received in Applic	ation No				
<ul> <li>3. Copies of the certified copies of the price application from the International Between the attached detailed Office action for a list</li> </ul>	ureau (PCT Rule 17.2(a)).	<del>-</del>				
14) Acknowledgment is made of a claim for domes	tic priority under 35 U.S.C. § 11	9(e) (to a provisional application).				
<ul> <li>a)  The translation of the foreign language pr</li> <li>15)  Acknowledgment is made of a claim for domes</li> </ul>	* *					
Attachment(s)						
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449) Paper No(s)</li> </ol>	5) Notice of Inform	nary (PTO-413) Paper No(s) nal Patent Application (PTO-152)				

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Α.,

#### **DETAILED ACTION**

### Response to Arguments

- 1. Applicant's arguments filed 4/7/03 have been fully considered but they are not persuasive. It is the contention of the Examiner the cited references do in fact teach Applicants invention, and therefore the rejection stands.
- 2. Regarding Applicants arguments on page 3 of the Amendment dated 4/7/03, the Examiner again refers to Figure 2. When the next sequential image 200 sub N comes in, the mosaic still displays "context images" or past images. The latest image is considered the active image. Clearly, Kumar teaches that a mosaic (multiple images viewable together) can include past images, or context images, and the latest images, or active images. Motion could be present in both, should there be no motion, the context images will be presented as static.

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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- 4. Claims 1-25 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by U.S. Patent No. 5,963,664 to Kumar et al.
- 5. As for Claims 1, 13, 18, and 23-25, Kumar discloses (Fig. 2) a set of temporally sequential frames of visual data, each frame representing an image, defining a region, within a panoramic region. Further disclosed (Fig. 2) is the positioning of one or more images, with relationship to the spatial orientation of the panoramic region, while an active image is being displayed. In addition, (Fig. 1, Element 106) shows an output device, which could be any type of video display. Kumar (Fig. 1) also shows the use of multiple cameras, which would provide at least two non-coincidental images, as well as a plurality of sets of temporally sequential frames, as further disclosed in Claim 13. Also disclosed in Claim 13 is the identification of a branch point, for the purpose of updating an image. Kumar discloses (Col. 17, Lines 13-33) a scene change detection scheme.
- 6. As for claim 25, note the scene change is detected between temporally sequential images, and the new set of frames is the updated set of frames (Col. 7).
- 7. Further disclosed in Claim 24, is a readable storage medium, on which is stored one or more computer programs, for producing a visual display, of a panoramic region. Kumar discloses (Col. 4, Lines 58-61) and (Col. 5, Lines 15-17) a computer that is programmed to function as an image processing system, and a video storage and retrieval system.
- 8. As for the additional limitations of claims 1, 23, and 24, see Figures 8 and 11.

  The image with motion of Figure 8, and an active image are one in the same. The motion for successive frames of the image is determined by differencing the overlapping

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data from frame to frame. Referring to Figure 11, as an object moves through the scene from right to left, it will be displayed at each location. Previously displayed images of the moving object will no longer be active images because they will no longer have motion associated with them, and will therefore be replaced by static context images, of the background scene.

- 9. Claim 2 discloses one or more context images, being automatically displayed, in a predetermined manner. Kumar teaches (Fig. 7), (Col. 11, Lines 1-3) a hierarchical technique to register images.
- 10. Claims 3-4, disclose an order, in which context images are to be displayed. Since the frames representing an image are processed sequentially, and a hierarchy for how those images are displayed, already exists, it is logical to assume that the context images would be displayed, as disclosed in Claims 3-4.
- 11. As for Claims 15 and 20, Kumar discloses (Col. 5, Lines 7-9) a single camera providing temporally sequential frames of visual data, while the camera pans across the scene, or "rotates at a fixed location".
- 12. As for Claim 16, Kumar discloses (Col. 4, Lines 58-61) and (Col. 5, Lines 15-17) a computer that is programmed to function as an image processing system, and a video storage and retrieval system.
- 13. In reference to Claims 5-12, Kumar discloses (Col. 4, Lines 58-61) and (Col. 5, Lines 15-17) a computer that is programmed to function as an image processing system, and a video storage and retrieval system. The use of computer software, and a

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memory, implies that past and present images can be designated, by user instruction, to perform all functions disclosed in Claims 5-12.

- 14. Although Claims 21-22 do not disclose user interaction, or image designation, by a user, they do refer to displaying context images, in a specific manner. It is therefore implied, that these displays could not take place, without instruction, and are rejected, for the same reasons as Claims 5-12.
- 15. Regarding Claims 14 and 19, Kumar teaches (Fig. 2, Element 204) that each overlapping section, of an image, is updated by the new image. The fact that images can be displayed, while being produced, suggests that an active image is produced in real time.

### Conclusion

16. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to George A Bugg whose telephone number is (703) 305-2329. The examiner can normally be reached on Monday-Thursday from 7:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher S Kelley, can be reached on (703) 304-4856. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-5359.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4750.

George A Bugg Examiner Art Unit 2613

**GAB** 

June 25, 2003

CHRIS KELLEY
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600